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NOTICE OF ALLOWANCE AND FEE(S) DUE

23373

7590

08/14/2008

SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 EXAMINER

RAO, ANAND SHASHIKANT

ART UNIT PAPER NUMBER

2621

DATE MAILED: 08/14/2008

| | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|-------------|----------------------|---------------------|------------------|
| Ī | 10/829,301 | 04/22/2004 | So-voung Kim | O80903 | 7203 |

TITLE OF INVENTION: APPARATUS AND METHOD FOR DETERMINING 4X4 INTRA LUMINANCE PREDICTION MODE

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1440 | \$300 | \$0 | \$1740 | 11/14/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

| appropriate. All further indicated unless correct maintenance fee notifica | correspondence includir ed below or directed oth | ng the Patent, advance on herwise in Block 1, by (a | rders and notification of r a) specifying a new corres | naintenance fees v pondence address | vill be ; and/o | mailed to the current r (b) indicating a sepa | correspondence address as trate "FEE ADDRESS" for | |
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| CURRENT CORRESPOND | Fee pap | (s) Transmittal. Th ers. Each additiona | is certii Il paper | ficate cannot be used f | r domestic mailings of the or any other accompanying nt or formal drawing, must | | | |
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| SUITE 800 | VANIA AVENUE | I he Stat addı tran | reby certify that the es Postal Service v | is Fee(| e of Mailing or Trans (s) Transmittal is being fficient postage for firs ISSUE FEE address (1) 273-2885, on the d | mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below. | | |
| WASHINGTON | N, DC 20037 | | | | | | (Depositor's name) | |
| | | | | | | | (Signature) | |
| | | | | | | | (Date) | |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | | ATTC | RNEY DOCKET NO. | CONFIRMATION NO. | |
| 10/829,301 | 04/22/2004 | • | So-young Kim | | • | Q80903 | 7203 | |
| TITLE OF INVENTION | : APPARATUS AND M | IETHOD FOR DETERM | INING 4X4 INTRA LUM | INANCE PREDIC | TION I | MODE | | |
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| nonprovisional | NO | \$1440 | \$300 | \$0 | | \$1740 | 11/14/2008 | |
| EXAM | IINER | ART UNIT | CLASS-SUBCLASS | | | | | |
| RAO, ANAND | SHASHIKANT | 2621 | 375-240120 | | | | | |
| 1. Change of correspond CFR 1.363). | ence address or indicatio | n of "Fee Address" (37 | 2. For printing on the p | | | 1 | | |
| | ondence address (or Cha B/122) attached. | nge of Correspondence | (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to | | | | | |
| | ication (or "Fee Address | | | | | | | |
| PTO/SB/47; Rev 03-0 Number is required. | 02 or more recent) attach | 2 registered patent attorneys or agents. If no name is listed, no name will be printed. | | | | | | |
| 3. ASSIGNEE NAME A | ND RESIDENCE DATA | A TO BE PRINTED ON | I THE PATENT (print or typ | pe) | | | | |
| PLEASE NOTE: Uni | less an assignee is ident | ified below, no assignee | data will appear on the p T a substitute for filing an | atent. If an assign | ee is id | dentified below, the de | ocument has been filed for | |
| (A) NAME OF ASSI | • | bleuon of this form is NO | (B) RESIDENCE: (CITY | ě. | COUNT | TRY) | | |
| (-) | | | (-, | | | , | | |
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| Please check the appropr | iate assignee category or | categories (will not be pr | rinted on the patent): | Individual 🖵 C | orporat | ion or other private gro | oup entity 🔲 Government | |
| 4a. The following fee(s) | are submitted: | 41 | b. Payment of Fee(s): (Plea | se first reapply a | ny prev | viously paid issue fee | shown above) | |
| Issue Fee | T 11 11 | 15 | A check is enclosed. | | | | | |
| ☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies | | | Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). | | | | | |
| | | | overpayment, to Depo | sit Account Numb | er | (enclose a | n extra copy of this form). | |
| 5. Change in Entity Sta | tus (from status indicated IS SMALL ENTITY state | · · · · · · · · · · · · · · · · · · · | ☐ b. Applicant is no lon | ger claiming SMA | LL EN | TITY status. See 37 Cl | FR 1.27(g)(2) | |
| NOTE: The Issue Fee an | d Publication Fee (if req | uired) will not be accepte | d from anyone other than t | | | | ne assignee or other party in | |
| interest as shown by the | records of the United Sta | tes Patent and Trademark | COffice. | | | | | |
| Authorized Signature | | | | Date | | | | |
| Typed or printed name | | | | Registration N | No | | | |
| This collection of inform | nation is required by 37 C | FR 1.311. The information | on is required to obtain or i | etain a benefit by t | the pub | lic which is to file (and | by the USPTO to process) | |
| an application. Confiden submitting the complete this form and/or suggest: Box 1450, Alexandria, V Alexandria, Virginia 223 | tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC | U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR | 1.14. This collection is esty depending upon the individual to the control of the complete that the complete complete completes the control of the control | imated to take 12 ridual case. Any co er, U.S. Patent and D THIS ADDRESS | minute: ommen Trader S. SEN | s to complete, including ts on the amount of time mark Office, U.S. Depa D TO: Commissioner | g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450, | |

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| 23373 75 | 90 08/14/2008 | | EXAMINER | | |
| SUGHRUE MIO | N, PLLC | RAO, ANAND SHASHIKANT | | | |
| | ANIA AVENUE, N.W | ART UNIT | PAPER NUMBER | | |
| SUITE 800 WASHINGTON, I | DC 20037 | | 2621 DATE MAILED: 08/14/2008 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1016 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1016 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No. | Applicant(s) | |
|---|---|--|-------------------|
| | 10/829,301 | KIM ET AL. | |
| Notice of Allowability | Examiner | Art Unit | |
| | Andy S. Rao | 2621 | |
| The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in to or other appropriate communities. This application is sub- | his application. If not included ication will be mailed in due cou | ırse. THIS |
| 1. 🔀 This communication is responsive to the amendment filed | <u>on 7/3/08</u> . | | |
| 2. ☑ The allowed claim(s) is/are <u>1-23</u> . | | | |
| 3. Acknowledgment is made of a claim for foreign priority until a) All b) Some* c) None of the: 1. Certified copies of the priority documents have | | (f). | |
| 2. Certified copies of the priority documents have | e been received in Application | No | |
| 3. Copies of the certified copies of the priority do | cuments have been received i | n this national stage applicatior | from the |
| International Bureau (PCT Rule 17.2(a)). | | | |
| * Certified copies not received: | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | reply complying with the requir | rements |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | | | ICE OF |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | st be submitted. | | |
| (a) ☐ including changes required by the Notice of Draftspers | son's Patent Drawing Review (| PTO-948) attached | |
| 1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date | <i>,</i> | | |
| (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date | s Amendment / Comment or ir | the Office action of | |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t | | | ck) of |
| DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | | | e the |
| | | | |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) | 5. ☐ Notice of Info | rmal Patent Application | |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. ☐ Interview Sun | nmary (PTO-413), ail Date | |
| 3. ☑ Information Disclosure Statements (PTO/SB/08), | 7. Examiner's A | mendment/Comment | |
| Paper No./Mail Date <u>4/22/04</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. ⊠ Examiner's Si 9. □ Other | atement of Reasons for Allowa | nce |
| | /Andy S. Rao/ Primary Examiner, A | rt Unit 2621 | |
| | | | |

Application/Control Number: 10/829,301 Page 2

Art Unit: 2621

Allowable Subject Matter

1. Claims 1-23 are allowed.

Independent claims 1, 9, 12, 18, a prediction mode determination method, computer readable medium, and apparatus, including "...performing predictions for the predetermined-block in other prediction modes belonging to a specific group among the first number of groups including which includes a prediction mode among the selected prediction modes with a smallest prediction error among the calculated prediction errors, calculating prediction errors in-for the predictions performed in each of the other prediction modes, and deciding a prediction mode for the block according to the calculated prediction errors in the other prediction modes..." which are features that are not anticipated nor obvious over the art of record. Dependent claims 2-8, 10-11, 13-17, and 19-23 are allowed for the reasons concerning the independent claims.

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy S. Rao whose telephone number is (571)-272-7337. The examiner can normally be reached on Monday-Friday 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571)-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andy S. Rao Primary Examiner Art Unit 2621

asr /Andy S. Rao/ Primary Examiner, Art Unit 2621 August 1, 2008